



1. Detection of a color mark on a transparent plastic film

A color mark on a transparent plastic film should be detected.

For this purpose a contrast sensor type

SPECTRO-1-FIO in connection with an optical through beam fiber type **D-S-Q4-(28x0.2)-1200-67°** are used.

The optical through beam fiber comes with an aperture of 28mm and the distance between the receiver optical fiber head and the transmitter optical fiber head is approximately 50mm. The size of the semitransparent black mark is around 10mm x 10mm.

The **SPECTRO-1-FIO** comes in the DC – mode with a maximum switching frequency of about 150 kHz, which is more than enough for this application.

